



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

PIEDMONT REGIONAL OFFICE

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Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Omega Protein, Inc.
Facility Name: Omega Protein, Inc.
Facility Location: 610 Menhaden Road, Reedville, VA 22539
Registration Number: 40278
Permit Number: PRO40278

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Pages 5 through 39)

September 30, 2013

Effective Date

September 26, 2014

Modification Date

September 29, 2018

Expiration Date

Deputy Regional Director

Signature Date

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Facility Information

Permittee
Omega Protein, Inc.
610 Menhaden Road
Reedville, Virginia 22539

Responsible Official
Montgomery Deihl
General Manager

Facility
Omega Protein, Inc.
610 Menhaden Road
Reedville, Virginia 22539

Contact Person
William Purcell
Environmental Manager
(804) 453-4211

County-Plant Identification Number: 51-133-0011

Facility Description: SIC 2077; NAICS 311710 – Menhaden are conveyed from holding bins to indirect steam-heated cookers that break down the fat cells and coagulate the protein of the fish. The cooked fish pulp goes through a series of hydraulic screw presses where the oil-water emulsion (press liquor) is separated from the cooked fish. The residual solids (fish scrap) are conveyed to indirect steam dryers and then airless dryers. The dried fish solids are cooled and conveyed to a hammer mill for grinding, then treated and cured and sold as fish meal. The press liquor passes through centrifugal decanters to remove suspended fines. The press liquor is heated and pumped to a bank of centrifugal separators which separate oil from the water (stickwater). This oil is then fed through a series of polisher centrifuges where the remaining fines and moisture are removed. This oil goes through a refining process where it is bleached, hydrogenised, and deodorized, then stored in above ground storage tanks prior to sale. The stickwater is fed to a series of evaporators where the solids are concentrated to 50%. These condensed fish solubles are either fed back onto the fish scrap prior to steam drying or prepared for sale as solubles.

Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment and Associated Vaporizers and Airless Dryer Combustion							
BW1 BW2	2 3	Babcock and Wilcox Boilers fired on distillate oil, residual oil, bio-fuel, non-condensable gases (NCG), and liquefied petroleum gas (LPG) in the form of propane.	Heat input 112 MMBtu/hr each, Steam output 125,000 lbs/hr @ 250 psig, 400°F	----	----	----	August 18, 2014
RAN1 RAN2		Ransome ID series LP Gas Vaporizers	1.68 MMBtu/hr (each)	---	---	---	August 18, 2014
CB3	4	Cleaver Brooks CB-100-500-250ST boiler fired on No. 2 fuel oil-fired and liquefied petroleum gas (LPG) in the form of propane	20.9 MMBtu/hr	----	----	----	August 18, 2014
RAN3		Ransome 360 LP Gas Vaporizer	0.360 MMBtu/hr	---	---	---	August 18, 2014
NUK (CB4)	5	GTS Energy NUK 800 liquefied petroleum gas (LPG) in the form of propane-fired boiler	4.7 MMBtu/hr	----	----	----	August 18, 2014

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
D1 D2	8 9	Dupps Airless Dryers fired on distillate oil, residual oil, renewable diesel, and liquefied petroleum gas (LPG) in the form of propane, with heat exchanger, waste heat recovery unit, and high efficiency cyclones inherent to process	Heat input 29.7 MMBtu/hr each burner, 108,388 lb dried/hr each equivalent to ≈162,500 fish processed/hr each	Babcock and Wilcox Boilers	BW1 BW2	PM, VOC	August 18, 2014
Process Equipment							
S1 S2	2/3	TST 150 Steam Dryers	15,000 lb/hr steam loading each; 91,712.5 lb dried/hr each Equivalent to ≈137,500 fish processed/hr each	Babcock and Wilcox Boilers	BW1 BW2	PM, VOC	August 18, 2014
S3	2/3	TST 200 Steam Dryer	20,000 lb/hr steam loading; 114,390.5 lb dried/hr, equivalent to ≈171,500 fish processed/hr	Babcock and Wilcox Boilers	BW1 BW2	PM, VOC	August 18, 2014

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
MC2	10	Fish Meal Cooler	233,450 lb dried/hr equivalent to \approx 350,000 fish processed/hr	High efficiency cyclone	-----	PM/PM10	August 18, 2014
CT1	-----	Cooling Tower, non-contact evaporative type	8,450 gal water/min	----	-----	-----	August 18, 2014

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

**Fuel Burning Equipment and Associated Vaporizers and Airless Dryer
Combustion Requirements - (emission unit ID# BW1, BW2, RAN1, RAN2,
CB3, RAN3, and NUK (or CB4), D1, and D2**

1. **Fuel Burning Equipment Requirements - (emission unit ID#s BW1 and BW2) -
Limitations** – The permittee shall ensure that no bypass lines be contained in each boiler's (BW1 and BW2) combustion chamber. In addition, the permittee shall ensure the prevention of release of the process streams (referenced in Condition 25) to the atmosphere due to boiler malfunction by hard-piping the referenced process streams with a double-block valve system.
(9 VAC 5-80-110 and Condition 2 of 8/18/14 Permit)
2. **Airless Dryer Combustion Requirements - (emission unit ID#s D1 and D2) -
Limitations** – Each airless dryer's (D1 and D2) burner shall be equipped with a Hauck Model F-1/2-20 oil valve rated at a maximum of 6.96 psi to ensure a maximum heat input rating of 29.7 MMBtu/hr for each airless dryer.
(9 VAC 5-80-110 and Condition 3 of 8/18/14 Permit)
3. **Airless Dryer Combustion Requirements - (emission unit ID#s D1 and D2) -
Limitations** – The Hauck Model TBA24-50 fan supplying air flow to each airless dryer's (D1 and D2) burner shall be rated at a maximum of 399,000 scf/hr in order to provide up to 39% excess air, ensuring a maximum heat input rating of 29.7 MMBtu/hr for each airless dryer.
(9 VAC 5-80-110 and Condition 4 of 8/18/14 Permit)
4. **Fuel Burning Equipment Requirements - (emission unit ID#s BW1 and BW2) -
Limitations** – The boilers (BW1 and BW2) shall operate at a minimum average temperature of 1600°F, on each boiler's combustion chamber end wall in order to achieve the destruction efficiency referenced in Condition 34, while fish are being processed at more than 80% capacity on an hourly basis. All 3-hour periods of operation calculated on a rolling average, in which the average combustion temperature (based on operating parameters during the stack test correlating to the average combustion temperature) was more than 50 degrees Fahrenheit below the minimum average combustion temperatures established during the most recent performance test that demonstrated compliance, shall be recorded for each day and an explanation provided for the reduction in temperature. Each monitored 3-hour period of operation which falls 50 degrees below the minimum average temperatures of 1600°F, for boilers BW1 and BW2, while fish are being processed at more than 80% production capacity on an hourly basis based on operating parameters correlating to the average combustion temperature, shall be deemed an exceedance of emissions limitations or operational restriction and such exceedances shall be less than 5% of monitored operating time, calculated on a rolling twelve month basis. This information shall be maintained at the facility for the most recent five years. Notification of a malfunction shall be given in accordance with the SAPCB Regulations.
(9 VAC 5-80-110 and Condition 7 of 8/18/14 Permit)

5. **Fuel Burning Equipment Requirements - (emission unit ID#s BW1 and BW2) - Limitations** – The boilers (BW1 and BW2) shall operate at conditions which correlate to a temperature in each boiler's flame zone established during the most recent performance test that demonstrated compliance, in order to achieve the destruction efficiency referenced in Condition 34 at all times while fish are being processed. Any periods of operation in which the temperature in the flame zone was less than 2,000°F or the minimum temperature established during the most recent performance test that demonstrated compliance based on the operating parameters correlating to the temperature during the stack test, shall be recorded for each event and an explanation provided for the reduction in temperature. Each event in which the temperatures in the flame zone for the boilers BW1 and BW2 falls below 2,000°F or the minimum temperature established during the most recent performance test that demonstrated compliance while fish are being processed shall be deemed an exceedance of emissions limitations or operational restrictions. This information shall be maintained at the facility for the most recent five years. Notification of a malfunction shall be given in accordance with the SAPCB Regulations.
(9 VAC 5-80-110 and Condition 8 of 8/18/14 Permit)
6. **Fuel Burning Equipment and Associated Vaporizers, and Airless Dryer Combustion Requirements - (emission unit ID#s BW1, BW2, RAN1, RAN2, CB3, NUK (or CB4), RAN3, D1, and D2) - Limitations** - The approved fuels for the boilers (BW1 and BW2) are distillate oil, residual oil, bio-fuel, liquefied petroleum gas (LPG) in the form of propane and non-condensable gases (NCG). The sulfur content of the oils (as specified in condition 7) to be burned in the boilers (BW1 and BW2) shall not exceed 2.0 percent (2.0%) by weight per shipment. The approved fuel for vaporizers RAN 1, RAN 2, and RAN 3 is liquefied petroleum gas (LPG) in the form of propane. The approved fuels for boiler (CB3) are no. 2 fuel oil (distillate oil) and liquefied petroleum gas (LPG) (in the form of propane). The sulfur content of the oil to be burned in CB3 shall not exceed 0.3 percent by weight per shipment. The approved fuel for boiler (NUK or CB4) is propane. The approved fuels for the airless dryers (D1 and D2) are distillate oil, residual oil, renewable diesel and liquefied petroleum gas (LPG) in the form of propane. The sulfur content of the oils to be burned in the airless dryers shall not exceed 0.5 percent (0.5%) by weight per shipment. Distillate oil is defined as fuel oil (including diesel oil) that complies with the specifications for fuel numbers 1 or 2 as defined by the current American Society for Testing and Materials method. This definition does not include number 4 oil nor does it include used or waste oil. Residual oil is defined as fuel oil that complies with the specifications for fuel numbers 4, 5, and 6 as defined by the current American Society for Testing and Materials method. This definition does not include used or waste oil. Bio-fuel is defined as processed fish oils derived from a variety of species consisting of 100% triglycerides with no other contaminants and with a maximum sulfur content of 0.01 percent (0.01%) by weight, or as renewable diesel derived from plant- and animal- based waste oils, fats, greases, and non-cellulosic portions of food wastes and with a maximum sulfur content of 1500 ppm (0.15% S). Non-condensable gases are defined as the gases that remain after water vapor has been

condensed out of a vapor-laden stream. Liquefied petroleum gas (LPG) (in the form of propane) is defined as meeting ASTM specification D1835. A change in the fuels may require a permit to modify and operate.

(9 VAC 5-80-110 and Condition 16 of 8/18/14 Permit)

7. **Fuel Burning Equipment Requirements - (emission unit ID#s BW1 & BW2) -**

Limitations - The boilers (BW1 & BW2) combined shall consume no more than the following quantities of fuel, calculated monthly as the sum of each consecutive twelve (12) month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months:

- a. 949,045 gallons of residual fuel oil (with sulfur content greater than 0.5 weight percent and less than or equal to 2.0 weight percent) per year; or,
- b. 3,797,000 gallons of residual fuel oil (containing up to 75 percent by volume of substituted fish oil), (either with sulfur content less than or equal to 0.5 weight percent) per year; or,
- c. 4,197,138 gallons of distillate fuel oil, (either with sulfur content less than or equal to 0.5 weight percent) per year; or,
- d. 3,700,000 gallons of bio-fuel oil (with sulfur content less than or equal to 0.15 weight percent) per year or,
- e. 5,700,000 gallons of liquefied petroleum gas (LPG) (in the form of propane) (with sulfur content less than or equal to 0.0123 weight percent) per year or,
- f. Any combination of the approved fuels specified in this permit, such that *both* of the following equations are satisfied per year:

$$[(Y_{2.0} \times 157 \times S_{2.0}) + (Y_{0.5} \times 157 \times S_{0.5}) + (Y_{D0.5} \times 142 \times S_{D0.5}) + (Y_{FO} \times 1.0^*) + (Y_{BF0.15} \times 1.0^*) + (Y_{LPG0.0123} \times 0.10 \times S_{LPG0.0123}) / (2 \times 10^6)] \leq 149.0 \text{ tons } (SO_2)/\text{yr}$$

for all fuels combined combusted in boilers (BW1 & BW2)

where:

$Y_{2.0}$ is the number of gallons of residual fuel oil with sulfur content greater than 0.5 weight percent and less than or equal to 2.0 weight percent consumed in each consecutive twelve (12) month period.

$Y_{0.5}$ is the number of gallons of residual fuel oil with sulfur content equal to or less than 0.5 weight percent consumed in each consecutive twelve (12) month period.

$Y_{D0.5}$ is the number of gallons of distillate fuel oil with sulfur content equal to or less than 0.5 weight percent consumed in each consecutive twelve (12) month period.

Y_{FO} is the number of gallons of fish oil (bio-fuel) with sulfur content equal to or less than 0.01 weight percent consumed in each consecutive twelve (12) month period.

$Y_{BF0.15}$ is the number of gallons of renewable diesel (bio-fuel) with sulfur content equal to or less than 0.15 weight percent consumed in each consecutive twelve (12) month period.

$Y_{LPG0.123}$ is the number of gallons of liquefied petroleum gas (LPG) (in the form of propane) with a sulfur content equal to or less than 0.0123 weight percent consumed in each consecutive twelve (12) month period.

$S_{2.0}$ is the sulfur content of residual fuel oil having a sulfur content greater than 0.5 weight percent and less than or equal to 2.0 weight percent consumed in each consecutive twelve (12) month period.

$S_{0.5}$ is the sulfur content of residual fuel oil having a sulfur content equal to or less than 0.5 weight percent consumed in each consecutive twelve (12) month period.

$S_{D0.5}$ is the sulfur content of distillate fuel oil having a sulfur content equal to or less than 0.5 weight percent consumed in each consecutive twelve (12) month period.

$S_{0.0123}$ is the sulfur content of liquefied petroleum gas (LPG) (in the form of propane) having a sulfur content less than or equal to 0.0123 weight percent consumed in each consecutive twelve (12) month period.

$(157 \times S)$ for no. 6 fuel oil and $(142 \times S)$ for distillate are the emission factors for SO_2 emissions listed in AP-42, Table 1.3-1, dated 5/10, Emission Factors for Fuel Oil Combustion.

*: The emission factors for SO_2 emissions listed in Attachment 2 of Air Permitting Guidance (APG)-353 – Alternative Permitting, labeled “Alternative Fuel Permitting Emission Factor Comparison”, dated July 2, 2008.

$(0.10 \times S)$ for liquefied petroleum gas (LPG) (in the form of propane) is the emission factor for SO_2 emissions listed in AP-42, Table 1.5-1, dated 7/08, Emission Factors for LPG Combustion.

(9 VAC 5-80-110 and Condition 18 of 8/18/14 Permit)

8. **Associated Vaporizers for Fuel Burning Equipment (BW1 and BW2) Requirements - (emission unit ID# RAN1 and RAN2) - Limitations** – Each of the vaporizers (RAN1 and RAN2) associated with boilers (BW1 and BW2) shall consume no more than 160,839 gallons liquefied petroleum gas (LPG) (in the form of propane), calculated monthly as the sum of each consecutive twelve (12) month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 19 of 8/18/14 Permit)

9. **Airless Dryer Combustion Requirements - (emission unit ID#s D1 and D2) - Limitations** - The airless dryers (D1 and D2) combined shall consume no more than 990,000 gallons of residual fuel or distillate fuel or 1,197,155.85 gallons of renewable diesel fuel or 1,622,950 gallons of liquefied petroleum gas (LPG) (in the form of propane) per year, calculated monthly as the sum of each consecutive twelve (12) month period. The combined total shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for preceding 11 months. For the airless dryers (D1 and D2) using any combination of the four fuels, the quantities of residual fuel, the renewable diesel fuel, distillate fuel, and the liquefied petroleum gas (LPG) (in the form of propane) shall not exceed the individual gallons per year, calculated monthly as the sum of each consecutive 12-month period, and shall not exceed values that will allow the following equation to hold true:

$$(A) \times (150,0000 \text{ Btu/gal}) + (B) \times (124,044 \text{ Btu/gal}) + (C) \times (135,800 \text{ Btu/gal}) + (D) \times (91,500 \text{ Btu/gal}) \leq 148,500,000,000 \text{ Btu/yr}$$

Where: A = Number of gallons of residual fuel burned during any 12 consecutive month period.

B = Number of gallons of renewable diesel fuel burned during any 12 consecutive month period.

C = Number of gallons of distillate fuel burned during any 12 consecutive month period.

D = Number of gallons of liquefied petroleum gas (LPG) (in the form of propane) fuel burned during any 12 consecutive month period.

Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9 VAC 5-80-110 and Condition 23 of 8/18/14 Permit)

10. **Fuel Burning Equipment Requirements - (emission unit ID# CB3) - Limitations** - The boiler (CB3) shall consume no more than 480,000 gallons of No. 2 fuel oil or 734,426 gallons liquefied petroleum gas (LPG) (in the form of propane), calculated monthly as the sum of each consecutive twelve (12) month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 20 of 8/18/14 Permit)

11. **Associated Vaporizer for Fuel Burning Equipment (CB3) Requirements - (emission unit ID# RAN3) - Limitations** – The vaporizer (RAN3) associated with boiler (CB3) shall consume no more than 34,465 gallons liquefied petroleum gas (LPG) (in the form of propane), calculated monthly as the sum of each consecutive twelve (12) month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding

the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9 VAC 5-80-110 and Condition 21 of 8/18/14 Permit)

12. Fuel Burning Equipment Requirements - (emission unit ID# NUK or CB4) -

Limitations - The boiler (NUK or CB4) shall consume no more than 100,000 gallons of propane, calculated monthly as the sum of each consecutive twelve (12) month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9 VAC 5-80-110 and Condition 22 of 8/18/14 Permit)

13. Fuel Burning Equipment Requirements - (emission unit ID#s BW1 and BW2 (including S1, S2, and S3), D1, and D2)) - Limitations

– Combustion emissions from the operation of boilers BW1 and BW2, including the exhaust from the fish meal steam dryers' (S1, S2, and S3) waste heat evaporator and the exhaust from the airless dryers' (D1 and D2) waste heat evaporator or condenser, shall not exceed the limits specified below:

	<u>Per Boiler</u>	<u>Combined</u>	
Particulate Matter (PM)	16.8 lbs/hr	19.1 tons/yr	(9 VAC 5-50-260)
PM-10	14.5 lbs/hr	19.1 tons/yr	(9 VAC 5-50-260)
Sulfur Dioxide	234.5 lbs/hr	149.0 tons/yr	(9 VAC 5-50-260)
Nitrogen Oxides (as NO ₂)	40.1 lbs/hr	89.2 tons/yr	(9 VAC 5-50-260)
Volatile Organic Compounds	2.3 lbs/hr	3.7 tons/yr	(9 VAC 5-50-260)
Carbon Monoxide	9.2 lbs/hr	21.4 tons/yr	(9 VAC 5-50-260)

(9 VAC 5-80-110 and Condition 26 of 8/18/14 Permit)

14. Fuel Burning Equipment Requirements - (emission unit ID#s D1 and D2) -

Limitations – Combustion emissions from the operation of the airless dryers' (D1 and D2) furnaces as exhausted through Stack 8 and Stack 9, shall not exceed the limits specified below:

	<u>Per Dryer</u>	<u>Combined</u>	
Particulate Matter (PM)	4.5 lbs/hr	11.3 tons/yr	(9 VAC 5-50-260)
PM-10	4.5 lbs/hr	11.3 tons/yr	(9 VAC 5-50-260)

	<u>Per Dryer</u>	<u>Combined</u>	
Sulfur Dioxide	15.5 lbs/hr	38.9 tons/yr	(9 VAC 5-50-260)
Nitrogen Oxides (as NO ₂)	10.9 lbs/hr	27.2 tons/yr	(9 VAC 5-50-260)
Volatile Organic Compounds	1.3 lbs/hr	3.3 tons/yr	(9 VAC 5-50-260)
Carbon Monoxide	4.5 lbs/hr	11.3 tons/yr	(9 VAC 5-50-260)

(9 VAC 5-80-110 and Condition 30 of 8/18/14 Permit)

15. **Fuel Burning Equipment Requirements - (emission unit ID# CB3) - Limitations -**
Emissions from the boiler (CB3) shall not exceed the limits specified below:

Particulate Matter (PM)	0.3 lbs/hr	0.5 tons/yr	(9 VAC 5-50-260)
PM-10	0.2 lbs/hr	0.3 tons/yr	(9 VAC 5-50-260)
Sulfur Dioxide	6.4 lbs/hr	10.3 tons/yr	(9 VAC 5-50-260)
Nitrogen Oxides (as NO ₂)	3.0 lbs/hr	4.9 tons/yr	(9 VAC 5-50-260)
Carbon Monoxide	1.7 lbs/hr	2.8 tons/yr	(9 VAC 5-50-260)

(9 VAC 5-80-110 and Condition 28 of 8/18/14 Permit)

16. **Fuel Burning Equipment Requirements - (emission unit ID# NUK or CB4) – Limitations** - Emissions from the boiler (NUK or CB4) shall not exceed the limits specified below:

Nitrogen Oxides (as NO ₂)	1.0 lbs/hr	1.0 tons/yr	(9 VAC 5-50-260)
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(9 VAC 5-80-110 and Condition 29 of 8/18/14 Permit)

17. **Fuel Burning Equipment Requirements - (emission unit ID#s BW1 and BW2) - Limitations** - Visible Emissions from the BW1 boiler stack and BW2 boiler stack shall each not exceed 20 percent opacity, except for one six-minute period in any one hour of not more than 30 percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-110 and condition 33 of 8/18/14 permit)
18. **Associated Vaporizers for Fuel Burning Equipment (BW1, BW2, and CB3) Requirements - (emission unit ID#s RAN1, RAN2 and RAN3) - Limitations** - Visible Emissions from the RAN1 vaporizer stack, the RAN2 vaporizer stack, and the RAN3 vaporizer stack shall each not exceed 10 percent opacity, except for one six-minute period in any one hour of not more than 20 percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-110 and condition 34 of 8/18/14 permit)
19. **Airless Dryer Combustion Equipment Requirements - (emission unit ID#s D1 and D2) - Limitations** - Visible Emissions from the D1 airless dryer stack and the D2 airless dryer stack when residual oil is combusted shall each not exceed 20 percent opacity, except for one six-minute period in any one hour of not more than 27 percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-110 and condition 35 of 8/18/14 permit)
20. **Airless Dryer Combustion Equipment Requirements - (emission unit ID#s D1 and D2) - Limitations** - Visible Emissions from the D1 airless dryer stack and the D2 airless dryer stack when distillate oil, renewable diesel, and liquefied petroleum gas (LPG) (in the form of propane) fuel is combusted shall each not exceed 10 percent opacity, except for one six-minute period in any one hour of not more than 20 percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-110 and condition 36 of 8/18/14 permit)
21. **Fuel Burning Equipment Requirements - (emission unit ID#s CB3 and NUK or CB4) - Limitations** - Visible Emissions from the CB3 boiler stack and NUK or CB4 boiler stack shall each not exceed 20 percent opacity, except for one six-minute period in any one hour of not more than 30 percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-50-80 and 9 VAC 5-80-110)

22. **Fuel Burning Equipment Requirements - (emission unit ID# CB3) - Limitations** – Except where this permit is more restrictive than the applicable requirement, the Cleaver Brooks Boiler (CB3) shall be operated in compliance with the requirements of 40 CFR 60, Subpart Dc.
(9 VAC 5-80-110, 9 VAC 5-50-410 and condition 38 of 8/18/14 permit)
23. **Fuel Burning Equipment Requirements - (emission unit ID#s BW1, BW2, and CB3) - Limitations** – Except as specified in this permit, the facility is to be operated in compliance with all applicable Federal requirements under 40 CFR 63 Subpart JJJJJ. The facility shall operate the boilers (BW1, BW2, and CB3) compliant with the applicable work practice standards, emission reduction measures, and management practices listed in Table 2 of 40 CFR 63 Subpart JJJJJ. The two 112 mmBTU/hr (each) boilers and the one 20.9 mmBTU/hr boiler (respectively) (BW1, BW2, and CB3) are all affected existing boilers (40 CFR §§ 63.11193 and 63.11194) and shall comply with all applicable requirements for this size and category of boiler located at an area source.
(9 VAC 5-80-110, 9 VAC 5-50-410 and 40 CFR 63 Subpart JJJJJ Table 2)
24. **Fuel Burning Equipment Requirements - (emission unit ID#s BW1 and BW2) - Monitoring** – A parametric monitoring device correlating to the temperatures noted in conditions 4 and 5 in each boiler (BW1 and BW2) shall be installed, maintained, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations and shall be equipped with a continuous recorder having an accuracy as approved by DEQ of the parameter correlating to the minimum temperatures. Data from each continuous parametric monitor correlating to the temperatures in the combustion chambers shall be recorded as fifteen minute readings and reduced to 3-hour averages on a rolling basis. A valid 3-hour average shall consist of no less than 90% valid readings while fish are being processed. The permittee shall keep all continuously recorded measurements from each temperature monitoring device and any corrective actions taken maintained at the facility for the most recent five years.
(9 VAC 5-80-110 and Condition 11 of 8/18/14 Permit)
25. **Fuel Burning Equipment/Process Equipment Requirements - (emission unit ID#s BW1, BW2, S1, S2, S3, D1, and D2) - Monitoring** – The permittee shall install, calibrate, maintain, and operate a flow indicator for each boiler (BW1 and BW2) that, at least once every hour, provides a record of the process stream as exhausted via the steam dryers' (S1, S2, and S3) waste heat evaporator and the airless dryers' (D1 and D2) waste heat evaporator or condenser to each boiler's combustion chamber. Each flow indicator shall be installed in the process stream as exhausted via the steam dryers' waste heat evaporator and the airless dryers' waste evaporator or condenser to each boiler at a point closest to the inlet of each boiler's combustion chamber but before being joined with any other vent stream.
(9 VAC 5-80-110 and Condition 12 of 8/18/14 Permit)

26. **Airless Dryer Combustion Equipment Requirements - (emission unit ID#s D1 and D2) - Monitoring** – The maximum heat input for each airless dryer (D1 and D2), as described in Conditions 2 and 3, shall be monitored by installing a Programmable Logic Controller (PLC) which shall record the cumulative and instantaneous fuel usage for each airless dryer. All PLC records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110 and Condition 13 of 8/18/14 Permit)
27. **Fuel Burning Equipment Requirements - (emission unit ID#s BW1, BW2, CB3, NUK (or CB4), D1, and D2) – Monitoring/Recordkeeping** – The emissions from each of the boilers' stack (emission unit ID#s BW1, BW2, CB3 and NUK (or CB4) and airless dryers' (emission unit ID#s D1 and D2) shall be observed visually at least once each week for at least a brief time period during normal operations to determine if there are normal visible emissions (does not include condensed water vapor/steam), unless a 40 CFR 60 Appendix A Method 9 visible emissions evaluation (VEE) is performed on the emissions unit. Each emissions unit observed having above normal visible emissions shall be followed up with a VEE unless the visible emission condition is corrected as expeditiously as possible and recorded, and the cause and corrective measures taken are recorded. If any boiler(s) (emission unit ID #s: BW1, BW2, CB3, and NUK (or CB4)) or airless dryer(s) (emission unit ID #s: D1 and D2) is/are not operated during the calendar month or week, then no VEE needs to be performed along with the records documenting the boilers or airless dryers were not operated during the calendar month. The frequency of observing visible emissions may be reduced if twelve (12) consecutive weekly observations of visible emissions or 40 CFR 60 Appendix A Method 9 VEE shows no above normal visible emissions on the respective emissions unit. Weeks in which the emission unit does not operate do not factor into the twelve (12) consecutive weekly observations of visible emissions or 40 CFR 60 Appendix A Method 9 VEE. Anytime the monthly observation of visible emissions or 40 CFR 60 Appendix A Method 9 VEE show above normal visible emissions or when requested by the DEQ, the monitoring frequency shall be increased to once per week for the respective emission unit.
(9 VAC 5-80-110)
28. **Fuel Burning Equipment and Airless Dryer Combustion Requirements - (emission unit ID#s BW1, BW2, CB3, D1, and D2) – Monitoring/Recordkeeping** - The permittee shall obtain a certification from the fuel supplier with each shipment of fuel oil. Each fuel supplier certification shall include the following:
- a. The name of the fuel supplier;
 - b. The date on which the fuel oil was received;
 - c. The volume of fuel oil delivered in the shipment;
 - d. The sulfur content of the fuel oil;

- e. A statement that the distillate oil complies with the American Society for Testing and Materials specifications D975 for numbers 1 or 2 fuel oil *or* a statement that the residual oil complies with the American Society for Testing and Materials specifications D396 for numbers 4, 5, or 6 fuel oil *or* a statement that the bio-fuel complies with the American Society for Testing and Materials specifications;
- f. Documentation of sampling of the fuel oil indicating the location of the fuel oil when the sample was drawn;
- g. The method used to determine the sulfur content of the fuel oil; and
- h. Identification of the emission unit to which that fuel oil shipment is designated. Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ, may be used to determine compliance with the fuel specifications stipulated in Condition 6. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9 VAC 5-80-110 and Condition 17 of 8/18/14 Permit)

29. **Fuel Burning Equipment and Associated Vaporizers and Airless Dryer Requirements - (emission unit ID#s BW1, BW2, CB3, NUK (or CB4), RAN1, RAN2, RAN3, D1, and D2) – Monitoring/Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:

- a. All records demonstrating compliance with Conditions 4 and 5.
- b. All records demonstrating compliance with Condition 24.
- c. Records from the Programmable Logic Controller (PLC), as described in Condition 26 detailing the cumulative and instantaneous fuel usage for each airless dryer (D1 and D2).
- d. All fuel supplier certifications as described in Condition 28.
- e. The combined annual consumption of fuels defined in Condition 7 and expressed in gallons by the boilers (BW1 and BW2), calculated monthly as the sum of each consecutive twelve (12) period to demonstrate compliance with the equation in Condition 7f. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- f. The annual consumption of liquefied petroleum gas (in the form of propane) by each of the vaporizers (RAN1 and RAN2), calculated monthly as the sum of each twelve

(12) period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

- g. The combined annual consumption of fuel oil (expressed in gallons) by boiler (CB3), calculated monthly as the sum of each consecutive twelve (12) period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- h. The combined annual consumption of liquefied petroleum gas (in the form of propane) (expressed in gallons) by boiler (CB3), calculated monthly as the sum of each consecutive twelve (12) period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- i. The annual consumption of liquefied petroleum gas (in the form of propane) by the vaporizer (RAN3), calculated monthly as the sum of each twelve (12) period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- j. The annual consumption of propane (expressed in gallons) by the boiler (NUK or CB4), calculated monthly as the sum of each twelve (12) period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- k. The combined annual consumption of fuel oils and liquefied petroleum gas (in the form of propane) defined in Condition 6 and expressed in gallons and mmBTU/yr by the airless dryers (D1 and D2), calculated monthly as the sum of each twelve (12) period to demonstrate compliance with Condition 9. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- l. Records of boiler malfunctions and any corrective actions taken as according to 40 CFR 63.11225(c)(4) and (5).
- m. All applicable recordkeeping requirements for the boilers under 40 CFR 63.11225. These records shall be kept as according to 40 CFR 63.11225(d).
- n. Scheduled and unscheduled maintenance records for all process equipment and air pollution control equipment.

- o. Inventory of spare parts to minimize durations of air pollution control equipment breakdowns.
- p. Written operating procedures for all process equipment and air pollution control equipment.
- q. Operator training records.
- r. Copies of all stack tests and visible emissions evaluations conducted.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.

(9 VAC 5-80-110 and Condition 40 of 8/18/14 Permit)

30. **Fuel Burning Equipment Requirements - (emission unit ID# CB3) - Reporting** - The permittee shall submit fuel quality reports for (CB3) to the Director, Piedmont Regional Office within 30 days after the end of each calendar semi-annual period. If no shipments of oil were received during the calendar semi-annual period, the semi-annual report shall consist of the dates included in the calendar semi-annual period and a statement that no oil was received during the calendar semi-annual period. If oil was received during the calendar semi-annual period the reports shall include:

- a. The dates included in the calendar semi-annual period,
- b. Copies of all fuel supplier certifications for all shipments of oil received during the calendar semi-annual period or a semi-annual summary from each fuel supplier that includes the information specified in Condition 28 for each shipment of oil; and,
- c. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the oil burned at the facility.

(9 VAC 5-80-110 and Condition 41 of 8/18/14 permit)

31. **Fuel Burning Equipment and Airless Dryer Combustion Requirements - (emission unit ID#s BW1, BW2, CB3, D1, and D2) – Notifications** - The permittee shall furnish written notification to the Piedmont Regional Office of:

- a. The anticipated start-up date of commencement of burning liquefied petroleum gas (LPG) (in the form of propane) in unit CB3, postmarked not more than 60 days, nor less than 30 days, prior to such date.
- b. The actual start-up date of commencement of burning liquefied petroleum gas (LPG) (in the form of propane) in unit CB3, within 15 days after such date.

- c. The actual start-up date of commencement of burning the fish oil fuel mixture in units BW1 and BW2, within 15 days after such date.
- d. The actual start-up date of commencement of burning the renewable diesel and distillate fuel in units D1 and D2, within 15 days after such date.

(9 VAC 5-80-110, Condition 42 of 8/18/14 permit)

- 32. **Fuel Burning Equipment Requirements - (emission unit ID# BW1, BW2, and CB3) – Notifications/Reporting** – The permittee shall furnish all applicable written notifications and reports as according to 40 CFR 63.11225 as applicable to emission units (BW1, BW2, and CB3). This includes Notification of Compliance Status and a Biennial Compliance Status Report.
(9 VAC 5-80-110 and 40 CFR 63 Subpart JJJJJ)

Process Equipment Requirements (Steam Dryers, Airless Dryer Process Stream, Fish Meal Cooler, and Cooling Tower) - (emission unit ID# S1, S2, S3, D1, D2, MC2, and CT1)

- 33. **Process Equipment Requirements - (emission unit ID# S1, S2, S3, D1, and D2) - Limitations** – Particulate matter and volatile organic compound (VOC) emissions contained in the process stream, as exhausted via the steam dryers' (S1, S2, and S3) waste heat evaporator and the airless dryers' (D1 and D2) waste heat evaporator or condenser, shall be controlled by venting the waste heat evaporators' exhaust stream to boilers (BW1 and BW2) for incineration. The waste heat evaporators' exhaust stream shall be introduced into the flame zone of each boiler.
(9 VAC 5-80-110 and Condition 6 of 8/18/14 Permit)
- 34. **Process Equipment Requirements - (emission unit ID# S1, S2, S3, D1, and D2) - Limitations** – Volatile organic compound emissions (VOC) contained in the process stream as exhausted via the steam dryers' (S1, S2, and S3) waste heat evaporator and the airless dryers' (D1 and D2) waste heat evaporator or condenser shall be controlled to a reduction efficiency by both boilers combined (BW1 and BW2) at a minimum 98% on a volume (ppmv dry) basis.
(9 VAC 5-80-110 and Condition 9 of 8/18/14 Permit)
- 35. **Process Equipment Requirements - (emission unit ID# MC2) - Limitations** – Particulate matter emissions from the fish meal cooler (MC2) shall be controlled by a high efficiency cyclone with a minimum rated control efficiency of 98%. The high efficiency cyclone shall be provided with adequate access for inspection and shall be in operation when the fish meal cooler is operating. In addition, an annual internal inspection shall be conducted on the high efficiency cyclone by the permittee to ensure structural integrity.
(9 VAC 5-80-110 and Condition 10 of 8/18/14 Permit)

36. **Process Equipment Requirements - (emission unit ID# CT1) - Limitations** – Particulate matter emissions from the cooling tower (CT1) shall be controlled by limiting the annual make-up water throughput. In addition, the cooling tower shall use no chromium based water treatment chemicals. Chromium based water treatment chemicals shall have the meaning given them in §63.401 of the 40 CFR Part 63.
(9 VAC 5-80-110 and Condition 5 of 8/18/14 Permit)
37. **Process Equipment Requirements - (emission unit ID#s D1, D2, S1, S2, S3, and MC2) - Limitations** - The combined annual fish throughput for the airless dryers (D1 and D2), fish meal steam dryers (S1, S2, and S3) and fish meal cooler (MC2) shall not exceed 316,825 tons (fish) per year, equivalent to approximately 950,000,000 fish per year, calculated monthly as the sum of each consecutive twelve (12) month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 24 of 8/18/14 Permit)
38. **Process Equipment Requirements - (emission unit ID# CT1) - Limitations** - The annual throughput of make-up water for the cooling tower (CT1) shall not exceed $2,220.7 \times 10^6$ gallons per year, calculated monthly as the sum of each consecutive twelve (12) month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 25 of 8/18/14 Permit)
39. **Process Equipment Requirements - (emission unit ID# MC2) - Limitations** - Visible emissions from the fish meal cooler (MC2) stack shall not exceed 10 percent opacity, except for one six minute period in any one hour of not more than 20 percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-110 and Condition 37 of 8/18/14 Permit)
40. **Process Equipment Requirements - (emission unit ID# MC2) - Limitations** - Emissions from the operation of the meal cooler (MC2) shall not exceed the limits specified below:

Particulate Matter (PM)	3.5 lbs/hr	25.4 tons/yr	(9 VAC 5-50-260)
PM-10	3.5 lbs/hr	25.4 tons/yr	(9 VAC 5-50-260)

(9 VAC 5-80-110 and Condition 31 of 8/18/14 Permit)

41. **Process Equipment Requirements - (emission unit ID# CT1) - Limitations** - Emissions from the operation of the cooling tower (CT1) shall not exceed the limits specified below:

Particulate Matter (PM) 9.6 lbs/hr 21.1 tons/yr (9 VAC 5-50-260)

PM-10 9.6 lbs/hr 21.1 tons/yr (9 VAC 5-50-260)

(9 VAC 5-80-110 and Condition 32 of 8/18/14 Permit)

42. **Process Equipment Requirements - (emission unit ID# CT1) – Monitoring/Recordkeeping** – The throughput of make-up water for the cooling tower (CT1), as described in Condition 36, shall be monitored by flow meter and Programmable Logic Controller (PLC) which shall record the cumulative water usage for the cooling tower. All PLC records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 14 of 8/18/14 Permit)

43. **Process Equipment Requirements - (emission unit ID# MC2) – Monitoring/Recordkeeping** – The high efficiency cyclone referenced in Condition 35 shall be equipped with a differential pressure gauge to measure and continuously record the pressure drop across the unit when the fish meal cooler (MC2) is in operation. The differential pressure gauge shall be installed, maintained, calibrated, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring records shall note whether the observed pressure drop is within the cyclone manufacturer's recommended range, as well as any corrective measures taken as a result. This information shall be maintained at the facility for the most recent five years. Notification of a malfunction shall be given in accordance with the SAPCB Regulations.

(9 VAC 5-80-110 and Condition 15 of 8/18/14 Permit)

44. **Process Equipment Requirements - (emission unit ID# MC2) - Compliance Assurance Monitoring (CAM)** - The permittee shall monitor, operate, calibrate and maintain the high efficiency cyclone controlling the fish meal cooler (MC2) according to the following:

Monitoring, Frequency, Records	Performance Criteria	Indicator Range; Averaging Period
Continuous, recorded in PLC	Pressure differential (ΔP)	2.5" to 3.5" WC

(9 VAC 5-80-110 E (Article 1) and 40 CFR 64.6 (c))

45. **Process Equipment Requirements - (emission unit ID# MC2) - Compliance Assurance Monitoring (CAM)** - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40 CFR 64.7 through 40 CFR 64.9.

(9 VAC 5-80-110 E (Article 1) and 40 CFR 64.6 (c))

46. **Process Equipment Requirements - (emission unit ID# MC2) - Compliance Assurance Monitoring (CAM)** - At all times, the permittee shall maintain the monitoring equipment, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
(9 VAC 5-80-110 E (Article 1) and 40 CFR 64.7 (b))
47. **Process Equipment Requirements - (emission unit ID# MC2) - Compliance Assurance Monitoring (CAM)** - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the fish meal cooler (MC2) is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.
(9 VAC 5-80-110 E (Article 1) and 40 CFR 64.7 (c))
48. **Process Equipment Requirements - (emission unit ID# MC2) - Compliance Assurance Monitoring (CAM)** - Upon detecting an excursion or exceedance, the permittee shall restore operation of the fish meal cooler (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.
(9 VAC 5-80-110 E (Article 1) and 40 CFR 64.7 (d)(1))
49. **Process Equipment Requirements - (emission unit ID# MC2) - Compliance Assurance Monitoring (CAM)** - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
(9 VAC 5-80-110 E (Article 1) and 40 CFR 64.7(d)(2))

50. **Process Equipment Requirements - (emission unit ID# MC2) - Compliance Assurance Monitoring (CAM)** - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director, Piedmont Regional Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. (9 VAC 5-80-110 E (Article 1) and 40 CFR 64.7(e))
51. **Process Equipment Requirements - (emission unit ID# MC2) - Compliance Assurance Monitoring (CAM)** - If the number of exceedances or excursions exceeds 5 percent duration of the operating time for the fish meal cooler (MC2) for a semiannual reporting period, the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40 CFR 64.8. If a QIP is required, the permittee shall have it available for inspection. The QIP initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the permittee shall modify the plan to include procedures for conducting one or more of the following, as appropriate:
- a. Improved preventative maintenance practices;
 - b. Process operation changes;
 - c. Appropriate improvements to control methods;
 - d. Other steps appropriate to correct control performance; and
 - e. More frequent or improved monitoring.
- (9 VAC 5-80-110 E (Article 1) and 40 CFR 64.8(a) and (b))
52. **Process Equipment Requirements - (emission unit ID#s CT1, D1, D2, MC2, S1, S2, and S3) Monitoring/Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Piedmont Regional Office. These records shall include, but are not limited to:
- a. Material Safety Data Sheets (MSDS) for all water treatment chemicals described in Condition 36 used in the cooling tower (CT1).
 - b. The continuously recorded measurements for the cooling tower's (CT1) flow meter required in Condition 42.

- c. The annual throughput of make-up water, as described in Condition 38, and expressed in gallons, to the cooling tower (CT1), calculated monthly as the sum of each consecutive twelve (12) month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- d. The combined annual throughput of fish expressed as tons of fish processed to the airless dryers (D1 and D2), fish meal steam dryers (S1, S2 and S3), and fish meal cooler (MC2) as described in Condition 37, calculated monthly as the sum of each consecutive twelve (12) month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- e. Records of fish catch off-loaded per boat.
- f. Results of the annual internal inspections, as described in Condition 35, conducted on the meal cooler's (MC2) high efficiency cyclone as well as any corrective actions taken as a result of the inspections.
- g. The continuously recorded measurements for the meal cooler's (MC2) high efficiency cyclone's differential pressure gauge required in Condition 43.
- h. Records of the flow indicators monitoring the process stream as exhausted via the airless dryers' (D1 and D2) waste heat evaporator or condenser and the process stream as exhausted via the steam dryers' (S1, S2, and S3) waste heat evaporator to each boiler's (BW1 and BW2) combustion chamber, as described in Condition 25.
- i. Scheduled and unscheduled maintenance records for all process equipment and air pollution control equipment.
- j. Inventory of spare parts to minimize durations of air pollution control equipment breakdowns.
- k. Written operating procedures for all process equipment and air pollution control equipment.
- l. Operator training records.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-110 and Condition 40 of 8/18/14 Permit)

53. **Process Equipment Requirements - (emission unit ID# MC2) - Compliance Assurance Monitoring (CAM) Recordkeeping** - The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to §64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
(9 VAC 5-80-110 E and 40 CFR 64.9(b))
54. **Process Equipment Requirements - (emission unit ID# MC2) - Compliance Assurance Monitoring (CAM) Reporting** - The permittee shall submit CAM reports as part of the Title V semi-annual monitoring reports required by General Condition 69 of this permit to the Director, Piedmont Regional Office. Such reports shall include at a minimum:
- a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - c. A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in §64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

(9 VAC 5-80-110 F and 40 CFR 64.9(a))

Facility Wide Conditions

55. **Facility Wide Conditions – Monitoring/Recordkeeping** – Records shall be kept demonstrating the facility is an area source for HAPs. These compliance records shall be for a consecutive 12-month period which shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-50-50 and 9 VAC 5-80-110)
56. **Facility Wide Conditions - Testing** - The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-80-110, Condition 39 of 8/18/14 Permit)

57. **Facility Wide Conditions - Testing** - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

Insignificant Emission Units

58. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720B)	Rated Capacity (9 VAC 5-80-720C)
TK46	No.2 oil tank 308,000 gal (1972)	9 VAC 5-80-720B	VOC	N/A
TK75	No.2 oil tank 152,000 gal (1976)	9 VAC 5-80-720B	VOC	N/A
TKFT1	No.2 oil tank 20,000 gal (2003)	9 VAC 5-80-720B	VOC	N/A
TK70	No.6 oil tank 508,000 gal (1971)	9 VAC 5-80-720B	VOC	N/A
TK71	No.6 oil tank 508,000 gal (1972)	9 VAC 5-80-720B	VOC	N/A
TK21	No.6 oil tank 302,000 gal (2009)	9 VAC 5-80-720B	VOC	N/A
TK38	Used motor oil tank 15,600 gal (1985)	9 VAC 5-80-720B	VOC	N/A
TK77	Hydraulic oil tank 8,000 gal (1970)	9 VAC 5-80-720B	VOC	N/A
TK14	Lubricating oil tank 7,600 gal (1975)	9 VAC 5-80-720B	VOC	N/A
TK1	Fish oil tank 15,000 gal	9 VAC 5-80-720B	VOC	N/A
TK2	Fish oil tank 24,000 gal	9 VAC 5-80-720B	VOC	N/A
TK3	Fish oil tank 24,000 gal	9 VAC 5-80-720B	VOC	N/A
TK4	Fish oil tank 20,000 gal	9 VAC 5-80-720B	VOC	N/A
TK5	Fish oil tank 132,000 gal	9 VAC 5-80-720B	VOC	N/A

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720B)	Rated Capacity (9 VAC 5-80-720C)
TK6	Fish oil tank 59,000 gal	9 VAC 5-80-720B	VOC	N/A
TK7	Fish oil tank 508,000 gal	9 VAC 5-80-720B	VOC	N/A
TK8	Fish oil tank 308,000 gal	9 VAC 5-80-720B	VOC	N/A
TK9	Fish oil tank 294,000 gal	9 VAC 5-80-720B	VOC	N/A
TK10	Fish oil tank 93,000 gal	9 VAC 5-80-720B	VOC	N/A
TK11	Fish oil tank 8,300 gal	9 VAC 5-80-720B	VOC	N/A
TK24	Fish oil tank 308,000 gal	9 VAC 5-80-720B	VOC	N/A
TK27	Fish oil tank 508,000 gal	9 VAC 5-80-720B	VOC	N/A
TK47	Fish oil tank 308,000 gal	9 VAC 5-80-720B	VOC	N/A
TK77	Fish oil tank 508,000 gal	9 VAC 5-80-720B	VOC	N/A
TKF11	Fish oil tank 18,000 gal	9 VAC 5-80-720B	VOC	N/A
TKF12	Fish oil tank 25,000 gal	9 VAC 5-80-720B	VOC	N/A
TKF1001	Fish oil tank 20,600 gal	9 VAC 5-80-720B	VOC	N/A
TKF1001A	Fish oil tank 300,000 gal	9 VAC 5-80-720B	VOC	N/A
TKF1001B	Fish oil tank 300,000 gal	9 VAC 5-80-720B	VOC	N/A
TKFOL-1	Fish oil tank 20,000 gal	9 VAC 5-80-720B	VOC	N/A
TKFOL-2	Fish oil tank 20,000 gal	9 VAC 5-80-720B	VOC	N/A
TKFOL-3	Fish oil tank 20,000 gal	9 VAC 5-80-720B	VOC	N/A
TKFOL-5	Fish oil tank 20,000 gal	9 VAC 5-80-720B	VOC	N/A
TKFST-1	Fish oil tank 20,000 gal	9 VAC 5-80-720B	VOC	N/A
TKFST-2	Fish oil tank 20,800 gal	9 VAC 5-80-720B	VOC	N/A
TKPT1	Fish oil tank 220,000 gal	9 VAC 5-80-720B	VOC	N/A
TKPT13	Fish oil tank 20,600 gal	9 VAC 5-80-720B	VOC	N/A
TKPT2	Fish oil tank 20,600 gal	9 VAC 5-80-720B	VOC	N/A
TKPT3	Fish oil tank 20,600 gal	9 VAC 5-80-720B	VOC	N/A

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720B)	Rated Capacity (9 VAC 5-80-720C)
TKPT4	Fish oil tank 20,600 gal	9 VAC 5-80-720B	VOC	N/A
TKPT6	Fish oil tank 20,600 gal	9 VAC 5-80-720B	VOC	N/A
TKPT7	Fish oil tank 8,000 gal	9 VAC 5-80-720B	VOC	N/A
TKPT9	Fish oil tank 8,000 gal	9 VAC 5-80-720B	VOC	N/A

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Permit Shield & Inapplicable Requirements

59. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR Part 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	BW1, BW2 constructed before 1984 applicability date; not modified to increase capacity
40 CFR Part 60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	NUK (CB4) heat input rated < 10 MMBtu/hr applicability level.
40 CFR Part 60 Subparts K, Ka, Kb	Volatile Organic Liquid Storage Vessels Standards	Some tanks installed prior to 1984 applicability date. Other petroleum tanks exempt under 40 CFR §§ 60.111(a), 60.111(b) – maximum true vapor pressure of fuel and fish oils < 15 kPa or capacity < 40 m ³ .
40 CFR Part 63, Subpart JJJJJ	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources.	NUK (CB4) burns propane only which is defined as natural gas and therefore considered gaseous fuel of which is not subject to MACT JJJJJ.

Citation	Title of Citation	Description of Applicability
40 CFR Part 63, Subpart Q	National Emission Standards for Hazardous Air Pollutants Industrial Process Cooling Towers	CT1 is prohibited by NSR Permit from using chromium-containing water treatment chemicals.
40 CFR Part 64	Compliance Assurance Monitoring	Fuel burning equipment does not have add-on pollution control devices; steam dryers and cooling tower don't have potential to emit at major levels.
9 VAC 5 Chapter 60 Part II – Article 5	Emission Standards for Toxic Pollutants from New and Modified Sources (Rule 6-5)	Fish processing does not produce or emit HAPs; fuel burning equipment uses only fuel oil, biofuel, renewable diesel, or propane.
9 VAC 5 Chapter 40 Part II – Article 8	Existing Stationary Sources Emission Standards for Fuel Burning Equipment (Rule 4-8)	CB3 is not subject since it is subject to more restrictive standards in NSPS Subpart Dc. NUK (CB4) is exempt from Rule 4-8 due to its size.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

General Conditions

60. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)
61. **General Conditions - Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
62. **General Conditions - Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
63. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
64. **General Conditions - Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
65. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

66. **General Conditions - Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)
67. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
- a. The date, place as defined in the permit, and time of sampling or measurements;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of such analyses; and
 - f. The operating conditions existing at the time of sampling or measurement.
- (9 VAC 5-80-110 F)
68. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
69. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - i. Exceedance of emissions limitations or operational restrictions;

- ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

70. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is January 1 to December 31;
- b. The identification of each term or condition of the permit that is the basis of the certification;
- c. The compliance status;
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
- e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
- f. Such other facts as the permit may require to determine the compliance status of the source; and

- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9 VAC 5-80-110 K.5)

71. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Director, Piedmont Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 69 of this permit. (9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)
72. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Director, Piedmont Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Piedmont Regional Office. (9 VAC 5-20-180 C)
73. **General Conditions - Failure/Malfunction Reporting** - The emission units that have continuous monitors subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not subject to the 14 day written notification. (9 VAC 5-20-180 C)
74. **General Conditions - Failure/Malfunction Reporting** - Each owner required to install a continuous monitoring system (CMS) or monitoring device subject to 9 VAC 5-40-41 or 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable subpart in 9 VAC 5-50-410) and either a monitoring systems performance report or a summary report form, or both, to the board semiannually. All semi-annual reports shall be postmarked by the 30th day following the end of each calendar semi-annual period (June 30th and January 30th). All reports shall include the following information:

- a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9 VAC 5-40-41 B.6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;
- b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;
- c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
- d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

All malfunctions of emission units not subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C require written reports within 14 days of the discovery of the malfunction.
(9 VAC 5-20-180 C)

75. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)
76. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)
77. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)
78. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-190 and 9 VAC 5-80-260)

79. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)
80. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
81. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)
82. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9 VAC 5-80-2310 through 9 VAC 5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9 VAC 5-80-2340, adjusted annually by the change in the Consumer Price Index.
(9 VAC 5-80-110 H, 9 VAC 5-80-340 C and 9 VAC 5-80-2340 B)
83. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
 - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
- d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-90)

84. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E)

85. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

86. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
- d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

87. **General Conditions - Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

88. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

89. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.

(9 VAC 5-80-160)

90. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
91. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
92. **General Conditions - Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements stated in Condition 93 are met.
(9 VAC 5-80-250)
93. **General Conditions - Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
- (9 VAC 5-80-250)

94. **General Conditions - Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
(9 VAC 5-80-250)
95. **General Conditions - Malfunction as an Affirmative Defense** - The provisions of Conditions 92 – 94 are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9 VAC 5-80-250)
96. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9 VAC 5-80-190 C and 9 VAC 5-80-260)
97. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9 VAC 5-80-80 E)
98. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(40 CFR Part 82, Subparts A-F)
99. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)
100. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(40 CFR Part 68)

101. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9 VAC 5-80-110 I)

102. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

- a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
- b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
- c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)